

70271-3

1/16/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

January 16, 2013

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Ms. Cristina Griffin, Agent for KIK International, Inc.  
Delta Analytical Corporation  
12510 Prosperity Drive, Suite 160  
Silver Spring, Maryland 20904

Subject: Notification of Minor Label Changes per PR Notice 98-10  
Product Name: **Pure Bright Disinfectant Bleach**  
EPA Registration Number: **70271-3**  
Application Date: January 14, 2013  
Application Receipt: January 15, 2013

Dear Ms. Griffin:

This acknowledges receipt of your Notification application, submitted pursuant to the provisions of FIFRA section 3 (c) 9 and PR Notice 98-10.

Proposed Notification:

KIK International, Inc. is submitting a Notification per PR Notice 98-10 to add optional graphics for **EPA Reg. No. 70271-3:**

On Page Seventeen:

- Add a graphic to indicate "Fast Acting;"
- Add a graphic to indicate "Controls Algae & Bacteria;"
- Add a graphic to indicate "Calcium Free."

General Comments:

Based on a review of the material submitted the following comment applies. The Notification application is **Acceptable**. A copy of the **accepted** Notification is attached in your Regulatory File Jacket ( **EPA Reg. No. 70271-3** ) for future reference.

If you have questions or comments with regard to this Agency Letter, please contact Killian Swift via email at [Swift.Killian@epa.gov](mailto:Swift.Killian@epa.gov) or by telephone at **703-308-6346**. When you are submitting information or data in response to this Agency Letter, please send a copy of this Agency Letter with your response in order to facilitate processing.

Sincerely yours,

Monisha Harris,  
EPA Product Manager 32  
Regulatory Management Branch II  
Antimicrobials Division ( 7510P )

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United States  
**Environmental Protection Agency**  
 Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number

**NOTIF**

**Application for Pesticide - Section I**

1. Company/Product Number <b>70271-3</b>	2. EPA Product Manager <b>Monisha Harris</b>	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>KIK International, Inc. / Pure Bright Disinfectant Bleach</b>	PM# <b>32</b>	
5. Name and Address of Applicant (Include ZIP Code) <b>KIK International, Inc. c/o Delta Analytical Corp. 12510 Prosperity Drive, Suite 160 Silver Spring, MD 20904</b> <i>Check if this is a new address</i>	6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____ Product Name _____	

**Section - II**

Amendment - Explain below  
 Resubmission in response to Agency letter dated \_\_\_\_\_  
 Notification - Explain below.

Final printed labels in response to Agency letter dated \_\_\_\_\_  
 "Me Too" Application.  
 Other - explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

**Notification per PR Notice 98-10 to add graphics; response to EPA letter of 12/26/12**

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

**Section - III**

1. Material this Product will be Packaged in:

Child-Resistant Packaging <input checked="" type="checkbox"/> Yes* For retail <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input checked="" type="checkbox"/> Other (Specify) <u>Bulk</u>
* Certification must be submitted.		If "Yes," Unit Package wgt. No. per container	

3. Location of Net Contents Information  
 Label  Container

4. Size(s) of Retail Container  
48, 60, 96, 128, 174, 182 oz;  
5, 15, 30, 55, 250, 300, 330 gallons, bulk

5. Location of Label Direction:  
 On Label crease  
 On Labeling accompanying product

6. Manner In Which Label Is Affixed to Product:  
 Lithograph  
 Over 2 gallons:  Paper glued  
 Stenciled  
 Other: Under 2 gallons plastic sleeve; Bulk: Label accompanies product

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name <b>Cristina Griffin</b>	Title <b>Agent for KIK International, Inc.</b>	Telephone No. (Include Area Code) <b>301-680-7971</b>
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<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any kind of knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received  <b>(Stamped)</b>
2. Signature 	3. Title <b>Agent for KIK International, Inc.</b>	
4. Typed Name <b>Cristina Griffin</b>	5. Date <b>January 14, 2013</b>	

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January 14, 2013

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
Environmental Protection Agency  
One Potomac Yard  
2777 S. Crystal Drive, Room S-4900  
Arlington, VA 22202

Attn: Monisha Harris, PM 32/Killian Swift

**RE: Notification per PR Notice 98-10 to add graphics; response to EPA letter of 12/26/12**  
**Product: Pure Bright Disinfectant Bleach, EPA Reg. No.: 70271-3**  
**Company: KIK International, Inc**

Dear Ms. Harris and Mr. Swift:

On behalf of KIK International, Inc., I am submitting a notification per PR Notice 98-10 to add optional graphics for the product Pure Bright Disinfectant Bleach, EPA Reg. No. 70271-3.

On 12/7/12 we submitted a notification to add minor claims and graphics to the labeling for the subject product. On December 26, 2012, EPA approved the changes to the claims, but rejected the graphics. We have been in contact with the reviewer, Mr. Killian Swift, and have made explanations/revisions to satisfy EPA's concerns as follows:

EPA comments and KIK responses:

EPA's letter (attached) detailed concerns about the three new graphics: "Fast Acting," "Controls Algae & Bacteria," and "Calcium Free." KIK's intent is that these claims will be used only for swimming pool/spa uses, but although we had made this clear for the EPA approved label claims on page 3, we had not made it equally clear for the new graphics on page 17. KIK has now corrected this by adding the reader's note: *[The following optional graphics are for product labeling with Swimming Pools and/or Spas as the major use sites:]*

The graphics on page 17 are consistent with the swimming pool/spa claims on page 3 which EPA approved in October 2012, and that EPA has approved for many other EPA registered KIK Pool swimming pool products. Below is an explanation of the terms, and what we have added to clarify the graphics/terms:

"Fast acting:"

- This term "fast acting" is intended only for pool and spa products, so addition of the reader's note above the graphics on page 17 clarifies this: *"[The following optional graphics are for product labeling with Swimming Pools and/or Spas as the major use sites:]"*.
- The term "fast acting" is informational only. Sometimes pool/spa customers need fast acting pool chlorination products (granular or liquid products) and sometimes they need slow pool chlorination products as explained below:
  - Pool/spa customers need fast acting products when they want to shock or boost pool/spa chlorine levels quickly.

Examples of EPA previously approved "fast acting:" The EPA approved swimming pool/spa granular product, "Kem-Tek All-In-One Chlorinating Granules," EPA Reg.

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No. 7616-70, includes "Fast Acting" and "Fast Dissolving." (see label attached; page has been tabbed and relevant portion highlighted). The EPA approved 10% liquid sodium hypochlorite product EPA Reg. No.7616-45 also includes "Fast Acting" and the same graphic. (see both labels attached; pages have been tabbed and relevant portion highlighted).

-Pool/spa customers use slow products when they want to maintain chlorine levels in a pool or spa; tablets dissolve more slowly.

Example of previously approved "slow dissolving" or "slow release:": The EPA approved tablet product "KT Chlorinating Tablets," (EPA Reg. No. 7616-76) includes the claims "Slow Dissolving" or "Slow Release." (see label attached; page has been tabbed and relevant portion highlighted.) It is information for the consumer only, and common for swimming pool products.

- In our e-mail correspondence, you asked how a chemist would know that a product is fast acting or slow. A chlorinating product that is a liquid or granule will dissolve much more quickly than a chlorinating product that has been compressed into tablet form.

"Calcium Free:": We have added the reader's note [INFO FOR CUSTOMERS WHO NEED A CALCIUM FREE PRODUCT FOR POOL] below the graphic on page 17. Excessive calcium in pool water, can become a problem in a pool by building up on the pool's surfaces and equipment. Calcium (i.e., water hardness) in the incoming water can vary according to area. Pool owners that want to keep their pool water's calcium (hardness) level down look for products that are calcium free as there are chlorine products, such as shocks, that contain calcium hypochlorite, which can raise calcium or hardness levels in pool. Many pool owners, do not know exactly what chemicals contain calcium. The statement "CALCIUM FREE" assists customers in finding the right product for optimal pool care.

"Controls Algae and Bacteria:":With regard to the graphic "Controls Algae and Bacteria," on page 17, the directions on pages 9 and 13 specifically mention algae. In addition, the EPA approved claim on page 3 uses the same language. Finally, please note that algae is not a public health organism; bleach is known to kill algae and this property is one of the reasons that bleach or other chlorine products are used in swimming pools.

Enclosures

- EPA form 8570-1
- 1 copy of the label: page 17 is the only change and the graphics section is highlighted
- Copy of EPA letter dated 12/26/12
- E-mail correspondence dated 1/9/13
- Markup/tabbed copy of the notification label FYI to show where algae is in the directions and approved claims
- Examples of "fast acting" and "slow" on EPA approved pool labels

If you have any questions regarding this submission, please contact me at 301-680-7971 or [cgriffin@delta-ac.com](mailto:cgriffin@delta-ac.com).

Sincerely,

Cristina Griffin, Agent for KIK International, Inc.

Enclosures

# Pure Bright Disinfectant Bleach™

Adding the following new Alternate Brand Name:]

Aqua Guard Spa Shock

Cloro Bleach

Kem Tek Chlorinating Product

Kem Tek Daily Chlorinator & Shock Treatment

Kem Tek Small Pool Chlorinating Liquid

Kem Tek Spa Kem Liquid Shock

**NOTIFICATION**

Date Reviewed: January 16, 2013

Reviewed By: Millen B. Swift

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

[SEE BACK PANEL FOR [FIRST AID STATEMENT AND] OTHER PRECAUTIONS]  
[OR SEE FIRST AID STATEMENT AND ADDITIONAL PRECAUTIONS ON BACK PANEL]

[the "See back panel..." may be omitted if all labeling is on the same panel]

Net [Contents] 128 FL. OZ. (1 GAL.) 3.79L

## FIRST AID

Call a Poison Control Center or doctor immediately for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

### If in Eye:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

### If Swallowed:

- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

### If on Skin or Clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.

**Note to Physician:** Probable mucosal damage; may contraindicate the use of gastric lavage.

**SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

### Active Ingredient:

Sodium Hypochlorite ..... 5.25%

Other Ingredients: ..... 94.75%

**TOTAL:** ..... 100.0%

[The following may appear in any appropriate place on the label:]

Manufactured by [for]:

KIK International, Inc.

33 Macintosh Blvd

Concord Ontario L4K4L5 Canada

[Optional: Following may be included in addition to "Manufactured

by [for]" address above: Distributed by [or Sold by] [or Marketed

by] Insert additional company name and address]

EPA Reg. No. 70271-3

Ontario CA 91761

Santa Fe Springs CA 90670

Houston TX 77054

Denver CO 80207

Tacoma WA 98421

Concord ON CN L4K 4K5

Auburndale FL 33823

Hampton GA 30228

Salem VA 24153

EPA Est. No. 7616-CA-1

EPA Est. No. 11321-CA-1

EPA Est. No. 70271-TX-1

EPA Est. No. 65743-CO-1

EPA Est. No. 70271-WA-1

EPA Est. No. 67292-CN-1

EPA Est. No. 70271-FL-1

EPA Est. No. 70271-GA-1

EPA Est. No. 70271-VA-1

[actual establishment shown in code above or below label printed on bottle]

### Alternate Format for EPA Est. No.

EPA Est. No. 7616-CA-01 (C), 70271-CA-2 (G), CO-1 (L), FL-1 (M), GA-1

(S), TX-1 (B), VA-1 (P), WA-1 (F), CAN-1 (A), 55852-IL-01 (CP) [Letter

designation in lot code printed above or below label on bottle identifies actual establishment]

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[Optional Label Claims/location optional:] [Claims may be in upper or lower case]

NEW HIGHER CONCENTRATION FORMULA  
KILLS HIV ON HARD NON-POROUS ENVIRONMENTAL SURFACES  
DISINFECTS AND DEODORIZES  
WHITENS  
BRIGHTENS LAUNDRY  
KILLS GERMS  
FORMULATED FOR FOODSERVICE APPLICATIONS  
REMOVES STAINS  
BACTERICIDAL  
MILDEWICIDAL  
FUNGICIDAL  
CLEANS  
ELIMINATES ODORS  
COMPATIBLE WITH ON BLEACHABLE FABRICS  
FOR A CLEANER, FRESHER HOUSEHOLD & [AND] LAUNDRY  
DISINFECTS • SANITIZES • DEODORIZES  
VIRUCIDE

[The following headings may be placed above or in front of appropriate directions (e.g., Hospital Use in front of HIV directions, Household Use in front of directions for dishes or floors)]

COMMERCIAL/INSTITUTIONAL USE  
FARM- DAIRY USE  
RESTAURANT USE  
FOODSERVICE APPLICATIONS  
HOSPITAL USE  
HOUSEHOLD USE  
FOOD PROCESSING PLANT USE

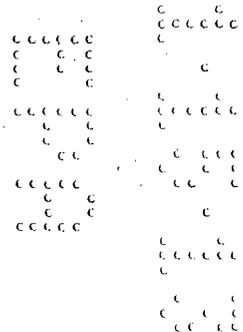
This product can be used on hard non-porous surfaces in commercial, institutional, hospital and household premises (including kitchens, bathrooms, nurseries, sick rooms, laundry rooms) eating establishments, pet kennels, veterinary premises, farms, dairies, and food processing plants.

Kitchen: Clean and disinfect kitchen sinks and countertops.  
Bathroom: Deodorize and disinfect bathtubs, showers, floors, vinyl, and tile.  
Toilet Bowls: Disinfect your toilet.

Exercise care in handling. Check to make sure bottle is always tightly capped. Product should be carried and stored in an upright position to avoid spillage.

Do not use this product full strength for cleaning surfaces. Always dilute strictly in accordance with label directions. Wear gloves when cleaning for prolonged periods.

Contains no phosphorous.  
Keep upright.  
Do not drop.  
Do not get into eyes.  
Do not mix with other chemicals.



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[Swimming Pool Claims, optional/location optional:] [Claims may be in upper or lower case]

[INSERT #] PACK

[INSERT #] STEP POOL CARE SYSTEM

ABC SMART[ER] [POOL CARE] [SYSTEM]

ADD DIRECTLY TO [SKIMMER] [OR] [POOL]

CLEAR CLOUDY WATER

COMPATIBLE WITH SALT WATER POOLS

CONTAINS NO CALCIUM [OR CALCIUM FREE] [INFO FOR CUSTOMER WHO NEEDS A CALCIUM FREE PRODUCT FOR POOL]

CONTROLS ALGAE [[&] [AND]] BACTERIA

DESTROYS [ORGANIC] [SWIMMER] [CONTAMINANTS] [WASTES]

FAST ACTING SHOCK FOR [SPAS & HOT TUBS] [SWIMMING POOLS]

FOR ABOVE GROUND POOL START-UP

FOR ALL POOL[S] [SURFACES] [INCLUDING VINYL, PLASTER [[&] [AND]] FIBERGLASS]

FOR [DAILY] [EVERYDAY] CHLORINATION [[&] [AND] [OR]] SHOCK [TREATMENT]

FOR POOL STARTUP [[&] [AND]] WEEKLY SHOCK TREATMENT

FOR POP-UP POOL START UP

FOR SHOCKING [[&] [AND]] EVERYDAY [OR DAILY] CHLORINATION

FOR SPA[S] & HOT TUB[S] [SHOCKING]

FOR SUPERCHLORINATION [OR SUPER-CHLORINATION]

FOR USE IN [ALL] SPAS

FOR USE WITH ALL POOL SURFACES

FOR WINTERIZING POOLS

[FREE POOL CARE ADVICE 1-800-SOS-POOL • www.kem-tek.com]

IDEAL FOR VINYL POOLS

KEEPS WATER [CLEAN] [CRYSTAL CLEAR]

NO NEED TO PRE-DISSOLVE [ / DILUTE]

NO CLOUDINESS CAUSING RESIDUES!

PART C

PART OF THE KEM-TEK POOL CARE SYSTEM

PART OF THE SIMPLY SMART[ER] [POOL] [CARE] [SYSTEM]

POOL DISINFECTANT

SPA & HOT TUB DISINFECTANT

POOLS, PATIOS [[&] [AND]] SPAS

QUICK CHLORINE BOOST

SHOCK

SHOCK TREATMENT [[&] [AND]] SUPERCHLORINATOR FOR SWIMMING POOLS [[&] [AND]] SPAS

[SIMPLY C] [SMART[ER] C] [STEP C]

SIMPLY SMART[ER] [POOL CARE] [SYSTEM]

STEP [INSERT #]

SUITABLE FOR [CLOSING POOLS] [OPENING POOLS] [POOL CLOSING] [POOL WINTERIZATION][USE IN ALL POOLS]

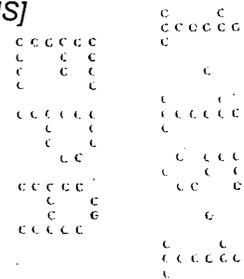
SWIMMING POOL WATER DISINFECTANT

TREATS XX,XXX GALLONS OF WATER [SIZE [[&] [AND]] [SIZE DETERMINES WHAT X IS]

UN-STABILIZED

USE FOR [CLOSING POOL] [OPENING POOL]

WORKS FAST



**SHOCK SCHEDULE**

SUMMER – ONCE PER WEEK

FALL – TWICE PER MONTH

SPRING – TWICE PER MONTH

WINTER – ONCE PER MONTH

THE BEST TIME TO SHOCK IS EARLY EVENINGS WITH THE POOL CIRCULATING SYSTEM IN OPERATION. THIS WAY THE SUN WILL NOT REDUCE THE EFFECTIVENESS OF THE TREATMENT.

[In the text "this product" or alternate brand name may be substituted for Pure Bright Disinfectant Bleach product.name]

[[Information in brackets] is optional or instructional; italics in brackets indicate instructions not part of labeling.]

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## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

**DANGER:** Corrosive, may cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Do not get in eyes, on skin, or on clothing. Wear safety glasses or goggles and rubber gloves when handling this product. Wash after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until vapors have dissipated.

[In accordance with PR notice 95-1, use the following complete Environmental Hazards statement for containers 5 gallons and larger]

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

[For containers smaller than 5 gallons use the following:]

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms.

#### Physical or Chemical Hazards

Strong oxidizer. Flush drains before and after use. Do not use or mix with other household chemicals, such as toilet bowl cleaners, rust removers, acid or ammonia containing products. To do so will release hazardous gasses. Prolonged contact with metal may cause pitting or discoloration.

#### STORAGE AND DISPOSAL

**Do not contaminate water, food or feed by storage or disposal**

**Product Storage:** Store this product in a cool, dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood area with large quantities of water. **Product Disposal:** Product or rinsate that cannot be used must be diluted with water before disposal in a sanitary sewer.

#### Container Handling:

[For Residential uses only]

Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or place in trash.

[For Institutional uses only, nonrefillable container 5 gallons or less]

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container ¼ full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Dispose of rinsate in sanitary sewer. Offer for recycling if available or place in trash.

[For Institutional uses only, refillable container container]

Refillable container. Refill this container with bleach only. Do not re-use this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Offer for recycling if available or puncture and dispose of in a sanitary landfill.

[Bulk Shipment Transport Vehicle labeling: The following is to be used for bulk shipment transport vehicle labeling. In accordance with 40 CFR 156.140 (e) "Exemption for transport vehicles" transport vehicles are exempt from the requirements to provide refillable or nonrefillable container instructions.]

#### STORAGE AND DISPOSAL

Do not contaminate food or feed by storage, disposal or cleaning of equipment. **Product Storage:** Store in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood area with large quantities of water. **Product Disposal:** Product rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer.

[Products must bear a batch code. This is a lot number or other code used by the registrant of producer to identify the batch of the product distributed and sold. Location optional]

[In the text "this product" or alternate brand name may be substituted for Pure Bright Disinfectant Bleach product name]

[[Information in brackets] is optional or instructional; italics in brackets indicate instructions not part of labeling.]

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### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

One Tbsp. (½ oz.) of Pure Bright Disinfectant Bleach [this product] in 1 gallon of water is equivalent to 200 parts per million (ppm) available chlorine. Use a chlorine test kit to determine exact available chlorine concentration and adjust as necessary to obtain specified ppm.

#### LAUNDRY

Use to bleach white and colorfast Acrylics, Cotton, Nylon, Polyester, Rayon (test to be sure). Do not use on Acetate, Leather, Silk, Spandex or Wool, mohair and non-fast colors. Sort laundry by color and fabric. Separate whites from colors, light colors from dark colors.

**BLEACH TEST:** Before using, mix one tablespoon of bleach with ½ cup of water in a glass, rubber, porcelain, or plastic container and test a small piece of fabric in a place that doesn't show. Test all colors, including trim. Let stand one minute, then blot dry. No color change means the article can be bleached safely.

**LAUNDRY:** Before adding clothes, mix 1 cup of bleach with water in top-loading 16 gallon machines or mix ¾ cup bleach with water in front-loading 8 gallon machines. For large top loading automatics or larger heavily soiled loads, use 1¼ cups. Add clothes. If sanitization is desired, soak clothes for 5 minutes. Wash and rinse with usual cycles. If clothes are in machine the addition of bleach can cause damage.

TOP LOAD AUTOMATIC.....	1 CUP	LARGE LOADING AUTOMATIC....	1¼ CUP
FRONT LOAD AUTOMATIC.....	¾ CUP	LARGE/HEAVY SOILED LOADS.....	1¼ CUP

**REMOVE STAINS:** Mix ¼ cup of bleach with a gallon of water. Soak stained area for 5 minutes to remove grass, ink, coffee, tea, scorch, fruit, etc. Rinse thoroughly.

Disinfects, sanitizes, and deodorizes by killing [common household] germs and their odors.

**SANITIZING FOOD CONTACT SURFACES:** Before using this product, remove or carefully protect food. Remove gross food particles from surface. Prewash surface with a good detergent and rinse thoroughly with potable water. Mix 1 tablespoon of bleach per gallon of water to prepare a 200 ppm available chlorine solution. Cover surface with bleach solution for at least 2 minutes. Air dry.

**DISINFECTING KITCHEN, DISHES, SINKS:** Use ¼ cup bleach mixed with a quart of water to soak cleaned dishes, teapot, cups, sinks, etc. for 10 minutes. Rinse with a solution of approximately 1 Tbsp. of bleach per gallon of water to prepare a 200 ppm solution. Do not use on silverware. Bleach solution can be used on porcelain, enamel, etc. surfaces after cleaning. Let air dry.

**DISINFECTING WALLS, FLOORS, AND OTHER HARD INANIMATE SURFACES NOT IN DIRECT CONTACT WITH FOOD:** Prewash surfaces and rinse. Mix ¾ cup bleach per gallon of water. Spray, rinse, or wipe surface with bleach solution and let stand for 10 minutes. Drain and air dry.

**DISINFECTING BATHROOM:** Prewash toilet and flush. Pour ½ cup bleach into toilet bowl, scrub with a brush, making sure to get under rim, let stand 10 minutes, flush. Do not use with bowl cleaners or any other household chemicals.

**DEODORIZING GARBAGE CANS:** Wash and rinse. Use ¾ cup bleach for each gallon of water in can. Empty and let drain.

**EGG SHELL SANITIZING:** Thoroughly clean eggs. Mix approximately 1 Tbsp. (½ oz) of bleach per gallon of warm water to produce a 200 ppm available chlorine solution. The sanitizer temperature should not exceed 130F. Spray the warm sanitizer so that the eggs are thoroughly wetted. Allow the eggs to thoroughly dry before casing or breaking. Do not apply a potable rinse. The solution should not be re-used to sanitize eggs.

*[In the text "this product" or alternate brand name may be substituted for Pure Bright Disinfectant Bleach product name]  
[[Information in brackets ] is optional or instructional; italics in brackets indicate instructions not part of labeling.]*

One Tbsp. (½ ounce) of Pure Bright Disinfectant Bleach [this product] in 1 gallon of water is equivalent to 200 parts per million (ppm) available chlorine. Use a chlorine test kit to determine exact available chlorine concentration.

	Amount Bleach	Amount Water	Instructions
<b>FOR SANITIZING</b>			
Work Surfaces	1 Tbsp.	1 Gallon	Pre-wash with detergent, rinse, cover surface with bleach solution for at least 2 minutes, drain, let air dry.
Dishes, Glassware, Utensils	1 Tbsp.	1 Gallon	After washing, soak for at least two minutes in bleach solution. Drain and let air dry.
Bathtubs, Showers	1 Tbsp.	1 Gallon	Wash, rinse, apply bleach solution for at least two minutes, drain, let air dry.
Refrigerators, Freezers	1 Tbsp.	1 Gallon	Wash, rinse, apply bleach solution for at least two minutes, drain, let air dry.
<b>FOR DISINFECTING</b>			
Floors & Walls	¾ Cup	1 Gallon	Pre-wash surfaces and rinse. Spray, rinse or wipe surface with bleach solution, let stand for 10 minutes. Drain and air dry.
Mops, Brushes, Brooms & Rugs	¾ Cup	1 Gallon	Wash with detergent, apply bleach solution, soak at least 10 minutes. Rinse well.
<b>FOR DEODORIZING</b>			
Garbage Cans	¾ Cup	1 Gallon	After washing and rinsing, brush inside with solution. Empty and let drain.
Drains	1 Cup	-----	Pour into drain. Flush with hot water.
<b>FOR BLEACHING/WHITENING</b>			
Wooden Surfaces	¾ Cup	1 Gallon	Apply for 5 minutes, rinse.
<b>FOR MOLD, MILDEW, &amp; STAIN REMOVAL</b>			
All Surfaces	¾ Cup	1 Gallon	Add bleach to detergent solution, apply, rinse.
<b>FOR AGRICULTURAL USES</b>			
Food Egg	1 Tbsp.	1 Gallon	Wash, rinse, spray with 130 F max bleach solution until completely wet; let air dry before casing or breaking. Once solution is used it must not be reused for this purpose.
Fruits and Vegetables	1 Tbsp.	20 Gallons	Wash, rinse, soak in circulating bleach solution (25 ppm) for 2 min. Spray vegetables with bleach solution before packing; use potable water to rinse fruit before packaging. Rinse is to occur only immediately prior to packaging.

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**-Laundering:** To bleach and sanitize white and colorfast cotton, linen, nylon, Dacron, Orlon, polyester, Dynel and rayon in washing machine: 1 cup of this product per load for conventional washing machine; ½ cup for front load automatic. Add to pre-soak, wash water or first rinse. If clothes are in machine, dilute product in 1 quart water before adding.

**-To Whiten Nylon and Other Synthetics** that have turned yellow or grey. 1 tablespoon of this product per gallon water. Soak clean fabric in solution for 15 to 20 minutes. Rinse well. Repeat if necessary.

**-To Remove Stains.** Berry, wine, coffee, tea, ink, grass, dye, medicine stains, scorch and mildew. Make solutions of 2 tablespoons of this product to each quart water. Immerse fabric for 5 to 10 minutes. Rinse well in clear water. Repeat if necessary.

**-Today's permanent Press Fabrics are Bleachable,** and need this product to get out stains and help prevent dirt build up. Wash with regular laundry as directed: Top-load automatics – 1 cup per load. Wringer-type washers – 1 cup per load. Front-load automatics – ¾ cup per load.

Use this product with any good laundry soap or detergent. If your washer has an automatic bleach dispenser, follow washer directions. If not, add this product to wash water before laundry is put in. If laundry is put in before wash water then dilute this product in quart of water and add after machine has started agitating and fabrics are thoroughly wet.

**-Disinfecting and Deodorizing Bathrooms:** To disinfect, deodorize, and eliminate mold and mildew from washable surfaces such as tubs, showers, counter tops, sinks, ceramic tile and vinyl flooring, spread a solution of 1 ½ cups of this product per 2 gallons of water on clean surface. Let stand 10 minutes, then drain.

**-Toilet Bowls:** To sanitize and deodorize pre-cleaned toilet bowls, use ½ cup of this product. Flush, pour in bleach – swab with brush, making sure to get under the rim, and let stand for 10 minutes. Flush. DO NOT use with bowl cleaners or any other household chemicals.

**-Sickroom Equipment** – Wash all surfaces thoroughly. Rinse, then spread a solution of 1½ cups of this product per 2 gallons of water over all surfaces. Let stand 10 minutes, then drain.

**-Garbage cans** – Wash thoroughly with warm soapy solution. Rinse then spread a solution of 1½ cups of this product per 2 gallons of water over all surfaces. Let stand 10 minutes, then drain.

Avoid prolonged contact with metal since corrosion or discoloration may occur. Do not use this product on chipped enamel.

**-Sanitizing Nonporous Food Contact Surfaces** – Prepare a sanitizing solution by thoroughly mixing 2 Tbsp. (1 oz.) of this product with 2 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean all surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

**-To Sanitize Milking Equipment:** Prepare sanitizing solution as above immediately prior to use. All surfaces to be sanitized should be properly cleaned before application of chlorine solution. Milking utensils should be submerged in the solution for at least 2 minutes and allowed to drain. Do not rinse equipment with water after treatment.

If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Sanitizers used in automated systems may be used for general cleaning but may not be reused for sanitizing purposes.

**-Sanitizing Porous Food Contact Surfaces:** Prepare a solution of approximately 600 ppm by thoroughly mixing 6 Tbsp. (3 oz.) of this product with 2 gallons of water. Clean surfaces in the normal manner. Rinse all surfaces thoroughly with the 600 ppm solution, maintaining contact with the sanitizer for at least 2 minutes. Prepare a 200 ppm sanitizing solution by thoroughly mixing 2 Tbsp. (1 oz.) of this product with 2 gallons of water. Prior to using equipment, rinse all surfaces with 200 ppm available chlorine solution. Do not rinse with water and do not soak equipment overnight.

#### PROPORTIONS FOR DILUTION OF THIS PRODUCT

200 ppm: 1 oz. (2 Tbsp) -- 2 gallons of water

600 ppm: 3 oz. (6 Tbsp) – 2 gallons of water

(Use a chlorine test kit to determine exact available chlorine concentration and adjust dosage as necessary.)

#### RESTAURANTS, TAVERNS, SODA FOUNTAINS, DAIRIES, ETC. DIRECTIONS FOR SANITIZING EATING AND DRINKING UTENSILS:

Prepare sanitizing solution immediately prior to use.

1. Scrape and pre-wash utensils and glass whenever possible.
2. Wash with good detergent or compatible cleaner.
3. Rinse with clean water.
4. Sanitize in solution of 1 oz to 2 gallons of water (200 ppm).
5. Immerse utensils at least 2 minutes or for contact time specified by governing sanitary code.
6. Do not reuse sanitizing solution.

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### DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

NOTE: This product degrades with age. Use a chlorine test kit and increase dosage, as necessary, to obtain the required level of available chlorine.

TABLE OF PROPORTIONS AVAILABLE CHLORINE: 600 ppm – 1 ½ oz. per gal. water  
200 ppm – ½ oz. per gal. water

*Pure Bright Disinfectant Bleach™ is used periodically to superchlorinate (shock) the pool water in order to destroy microorganisms that may be resistant to low levels of chlorine. Superchlorinate whenever the pool water loses its sparkle, turns green, chlorine residual is difficult to maintain, at the start of the swimming season, upon filling a pool, and after heavy swimmer load.*

### SWIMMING POOL WATER DISINFECTION

[Any of the paragraphs below may be used as appropriate]

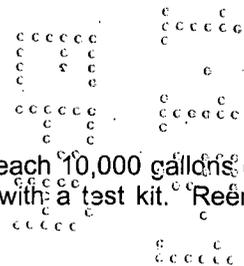
For a new pool or spring start-up, superchlorinate with 122 to 244 oz. of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Adjust and maintain pool water pH to between 7.2 to 7.6. Adjust and maintain the alkalinity of the pool to between 50 to 100 ppm.

To maintain the pool, add manually or by a feeder device 15 to 25 oz. of this product for each 10,000 gallons of water to yield an available chlorine residual between 0.6 to 1.0 ppm by weight. Stabilized pools should maintain a residual of 1.0 to 1.5 ppm available chlorine. Test the pH, available chlorine residual and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers.

For daily chlorination during the swimming season, add manually or by feeder device 25 to 80 oz. of this product for each 10,000 gallons of water to yield an available chlorine residual between 1 to 3 ppm by weight daily or as needed. Maintain a residual of 1.0 to 1.5 ppm. available chlorine in stabilized pools.

#### Daily Dosage During Swimming Season

Pool Diameter	(pool capacity gallons)	Daily Dose	Shock (Superchlorinate)
8 feet	(1000 gal.)	8 oz. (1 cup)	Use three (3) times the Daily Dose to Shock (superchlorinate)
10 feet	(1500 gal.)	12 oz. (1 1/2 cup)	
12 feet	(2500 gal.)	20 oz. (2 1/2 cups)	
15 feet	(5000 gal.)	40 oz (5 cups)	
18 feet	(7500 gal.)	60 oz. (7 1/2 cups)	
20 feet	(10,000 gal.)	80 oz. (10 cups)	
For Rectangular Pools: Length x Width x Depth 7.5 = capacity in gallons.			Shock Weekly or as needed.



Every 7 days, or as necessary, superchlorinate the pool with 122 to 244 oz. of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Reentry into treated pools is prohibited above levels of 4.0 ppm due to risk of bodily harm.

At the end of the swimming pool season or when water is to be drained from the pool, chlorine must be allowed to dissipate from treated pool water before discharge. Do not chlorinate the pool within 24 hours prior to discharge.

**WINTERIZING POOLS** - While water is still clear & clean, apply 8 oz. of product per 1000 gallons, while filter is running, to obtain a 3 ppm available chlorine residual, as determined by a suitable test kit. Cover pool, prepare heater, filter and heater components for winter by following manufacturers' instructions.

**VINYL LINED POOL CARE:** Vinyl lined pools are easily damaged by chemicals used to treat and maintain pools. Pure Bright Disinfectant Bleach™ is well suited for use in these pools, especially the above ground type which have only 3-4 foot depths and are not equipped with a bottom drain. Pure Bright Disinfectant Bleach™ will not cloud the water even when shocking or superchlorinating as can occur with calcium hypochlorite.

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[NOTE:] Do not allow direct contact of this product on the following pool surfaces: vinyl, metallic, fiberglass, painted or colored plaster. Always dilute in the pool water or use a feeder device; direct contact with surfaces will bleach color.

**SPAS, HOT-TUBS, IMMERSION TANKS, ETC.**

**SPAS/HOT-TUBS** - Apply 13 oz. of product per 1000 gallons of water to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.8. Some oils, lotions, fragrances, cleaners, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

To maintain the water, apply 13 oz. of product per 1000 gallons of water over the surface to maintain a chlorine concentration of 5 ppm.

After each use, shock treat with 20 oz. of this product per 500 gallons of water to control odor and algae. Reentry into treated spas is prohibited above levels of 5.0 ppm due to risk of bodily harm. During extended periods of disuse, add 8 oz. of product daily per 1000 gallons of water to maintain a 3 ppm chlorine concentration.

**HUBBARD AND IMMERSION TANKS** - Add 13 oz. of this product per 200 gallons of water before patient use to obtain a chlorine residual of 25 ppm, as determined by a suitable test kit. Adjust and maintain the water pH to between 7.2 and 7.6. After each use drain the tank. Add 14 oz. to a bucket of water and circulate this solution through the agitator of the tank for 15 minutes and then rinse out the solution. Clean tank thoroughly and dry with clean cloths. [Not for use in California.]

**HYDROTHERAPY TANKS** - Add 3 oz. of this product per 1000 gallons of water to obtain a chlorine residual of 1 ppm, as determined by a suitable chlorine test kit. Pool should not be entered until the chlorine residual is below 3 ppm. Adjust and maintain the water pH to between 7.2 and 7.6. Operate pool filter continuously. Drain pool weekly, and clean before refilling.

**SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES**

**RINSE METHOD** - A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 3 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 5 oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight.

Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment and do not soak equipment overnight.

Sanitizers used in automated systems may be used for general cleaning but may not be re-used for sanitizing purposes.

**IMMERSION METHOD** - A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to ensure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 3 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 5 oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight.

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Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment.

Sanitizers used in automated systems may be used for general cleaning but may not be re-used for sanitizing purposes.

**FLOW/PRESSURE METHOD** - Disassemble equipment and thoroughly clean after use. Assemble equipment in operating position prior to use. Prepare a volume of a 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 5 oz. product with 10 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 2 minutes to ensure contact with all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine.

**CLEAN-IN-PLACE METHOD** - Thoroughly clean equipment after use. Prepare a volume of a 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 5 oz. product with 10 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 10 minutes to ensure contact with all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine.

**SPRAY/FOG METHOD** - Preclean all surfaces after use. Use a 200 ppm available chlorine solution to control bacteria, mold or fungi and a 600 ppm solution to control bacteriophage. Prepare a 200 ppm sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 5 oz. product with 10 gallons of water. Prepare a 600 ppm solution by thoroughly mixing the product in a ratio of 15 oz. product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces treated with 600 ppm solution with a 200 ppm solution.

### SANITIZING OF POROUS FOOD CONTACT SURFACES

**RINSE METHOD** - Prepare a sanitizing solution by thoroughly mixing 15 oz. of this product with 10 gallons of water to provide 600 ppm available chlorine by weight. Clean surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Prepare a 200 ppm sanitizing solution by thoroughly mixing 5 oz. of this product with 10 gallons of water and rinse all surfaces with this 200 ppm solution. Do not rinse with water and do not soak equipment overnight.

**IMMERSION METHOD** - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 15 oz. of this product with 10 gallons of water to provide 600 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution, maintaining contact for at least 2 minutes and allow the sanitizer to drain. Following this, prepare a 200 ppm sanitizing solution by thoroughly mixing 5 oz. of this product with 10 gallons of water and rinse all surfaces with this 200 ppm solution. Do not rinse with water and do not soak equipment overnight.

**SPRAY/FOG METHOD** - Preclean all surfaces after use. Prepare a 600 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 15 oz. product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces with a 200 ppm available chlorine solution. Prepare a 200 ppm sanitizing solution by thoroughly mixing 5 oz. of this product with 10 gallons of water.

### SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES

**RINSE METHOD** - Prepare a sanitizing solution by thoroughly mixing 5 oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

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**IMMERSION METHOD** - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 5 oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

**SPRAY/FOG METHOD** - Preclean all surfaces after use. Prepare a 200 ppm. available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 5 oz. product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Prior to using equipment, thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

**DISINFECTION OF NONPOROUS NON-FOOD CONTACT SURFACES**

**RINSE METHOD** - Prepare a disinfecting solution by thoroughly mixing 15 oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the disinfecting solution, maintaining contact with the solution for at least 10 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

**IMMERSION METHOD** - Prepare a disinfecting solution by thoroughly mixing, in an immersion tank, 15 oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the disinfecting solution for at least 10 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

**SANITIZATION OF POROUS NON-FOOD CONTACT SURFACES**

**RINSE METHOD** - Prepare a sanitizing solution by thoroughly mixing 15 oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

**IMMERSION METHOD** - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 15 oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

**SPRAY/FOG METHOD** - After cleaning, sanitize non-food contact surfaces with 600 ppm available chlorine by thoroughly mixing the product in a ratio of 15 oz. of this product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Prior to using equipment, thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

**SEWAGE & WASTEWATER EFFLUENT TREATMENT**

The disinfection of sewage effluent must be evaluated by determining the total number of coliform bacteria and/or fecal coliform bacteria, as determined by the Most Probable Number (MPN) procedure, of the chlorinated effluent has been reduced to or below the maximum permitted by the controlling regulatory jurisdiction.

On the average, satisfactory disinfection of secondary wastewater effluent can be obtained when the chlorine residual is 0.5 ppm after 15 minutes contact. Although the chlorine residual is the critical factor in disinfection, the importance of correlating chlorine residual with bacterial kill must be emphasized. The MPN of the effluent, which is directly related to the water quality standards requirements, should be the final and primary standard and the chlorine residual should be considered an operating standard valid only to the extent verified by the coliform quality of the effluent.

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The following are critical factors affecting wastewater disinfection.

1. **Mixing:** It is imperative that the product and the wastewater be instantaneously and completely flash mixed to assure reaction with every chemically active soluble and particulate component of the wastewater.
2. **Contacting:** Upon flash mixing, the flow through the system must be maintained.
3. **Dosage/Residual Control:** Successful disinfection is extremely dependant on response to fluctuating chlorine demand to maintain a predetermined, desirable chlorine level. Secondary effluent should contain 0.2 to 1.0 ppm chlorine residual after a 15 to 30 minute contact time. A reasonable average of residual chlorine is 0.5 ppm after 15 minutes contact time.

## SEWAGE AND WASTEWATER TREATMENT

**EFFLUENT SLIME CONTROL** - Apply a 100 to 1000 ppm available chlorine solution at a location which will allow complete mixing. Prepare this solution by mixing 25 to 244 oz. of this product with 100 gallons of water. Once control is evident, apply a 15 ppm available chlorine solution. Prepare this solution by mixing 5 oz. of this product with 100 gallons of water.

**FILTER BEDS - SLIME CONTROL:** Remove filter from service, drain to a depth of 1 ft. above filter sand, and add 190 oz. of product per 20 sq/ft evenly over the surface. Wait 30 minutes before draining water to a level that is even with the top of the filter. Wait for 4 to 6 hours before completely draining and backwashing filter.

## DISINFECTION OF DRINKING WATER (EMERGENCY/PUBLIC/INDIVIDUAL/SYSTEMS)

**PUBLIC SYSTEMS** - Mix a ratio of 3 oz. of this product to 100 gallons of water. Begin feeding this solution with a hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Primary Drinking Water Regulations. Contact your local Health Department for further details.

**INDIVIDUAL SYSTEMS: DUG WELLS** - Upon completion of the casing (lining), wash the interior of the casing (lining) with a 100 ppm available chlorine solution using a stiff brush. This solution can be made by thoroughly mixing 3 oz. of this product into 10 gallons of water. After covering the well, pour the sanitizing solution into the well through both the pipesleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. Start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours, flush well until all traces of chlorine have been removed from the water. Consult your local Health Department for further details.

**INDIVIDUAL WATER SYSTEMS: DRILLED, DRIVEN & BORED WELLS** - Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. This solution can be made by thoroughly mixing 3 oz. of this product into 10 gallons of water. Add 5 to 10 gallons of clean, chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of the pump cylinder with the sanitizer. Drop pipeline into the well, start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours, flush well until all traces of chlorine have been removed from the water. Deep wells with high water levels may necessitate the use of special methods for introduction of the sanitizer to the well. Consult your local Health Department for further details.

**INDIVIDUAL WATER SYSTEMS: FLOWING ARTESIAN WELLS** - Artesian Wells generally do not require disinfection. If analyses indicate persistent contamination, the well should be disinfected. Consult your local Health Department for further details.

**EMERGENCY DISINFECTION** - When boiling of water for 1 minute is not practical, water can be made potable by using this product. Prior to addition of the sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified, contaminated water to a clean container and add 3 drops of this product to 20 gallons of water. Allow the treated water to stand for 30 minutes. Properly treated water should have a slight chlorine odor, if not, repeat dosage and allow the water to stand an additional 15 minutes. The treated water can then be made palatable by pouring it between clean containers for several times. This process has not been demonstrated to inactivate Cryptosporidium cysts.

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## PUBLIC WATER SYSTEMS

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**RESERVOIRS: ALGAE CONTROL** - Hypo chlorinate streams feeding the reservoir. Suitable feeding points should be selected on each stream at least 50 yards upstream from the points of entry into the reservoir.

**MAINS** - Thoroughly flush section to be sanitized by discharging from hydrants. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

**NEW TANKS, BASINS, ETC.** - Remove all physical soil from surfaces. Place 48 oz. of this product for each 5 cubic feet of working capacity (500 ppm available chlorine). Fill to working capacity and allow to stand for at least 4 hours. Drain and flush with potable water and return to surface.

**NEW FILTER SAND** - Apply 190 oz. of this product for each 150 to 200 cubic feet of sand. The action of the product dissolving as the water passes through the bed will aid in sanitizing the new sand.

**NEW WELLS** - Flush the casing with a 50 ppm available chlorine solution of water containing 13 oz. of this product for each 100 gallons of water. The solution should be pumped or fed by gravity into the well after thorough mixing with agitation. The well should stand for several hours or overnight under chlorination. It may then be pumped until a representative raw water sample is obtained. Bacterial examination of the water will indicate whether further treatment is necessary.

**EXISTING EQUIPMENT** - Remove equipment from service, thoroughly clean surfaces of all physical soil. Sanitize by placing 50 oz. of this product for each 5 cubic feet capacity (approximately 500 ppm available chlorine). Fill to working capacity and let stand at least 4 hours. Drain and place in service. If the previous treatment is not practical, surfaces may be sprayed with a solution containing 13 oz. of this product for each 5 gallons of water (approximately 1000 ppm available chlorine). After drying, flush with water and return to service.

### EMERGENCY DISINFECTION AFTER FLOODS

**WELLS** - Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Prepare this solution by mixing 13 oz. of this product with 10 gallons of water. Backwash the well to increase yield and reduce turbidity, adding sufficient chlorinating solution to the backwash to produce a 10 ppm available chlorine residual, as determined by a chlorine test kit. After the turbidity has been reduced and the casing has been treated, add sufficient chlorinating solution to produce a 50 ppm available chlorine residual. Agitate the well water for several hours and take a representative water sample. Retreat well if water samples are biologically unacceptable.

**RESERVOIRS** - In case of contamination by overflowing streams, establish hypochlorinating stations upstream of the reservoir. Chlorinate the inlet water until the entire reservoir obtains a 0.2 ppm available chlorine residual, as determined by a suitable chlorine test kit. In case of contamination from surface drainage, apply sufficient product directly to the reservoir to obtain a 0.2 ppm available chlorine residual in all parts of the reservoir.

**BASINS, TANKS, FLUMES, ETC.** - Thoroughly clean all equipment, then apply 48 oz. of product per 5 cu. ft. of water to obtain 500 ppm available chlorine, as determined by a suitable test kit. After 24 hours, drain, flush, and return to service. If the previous method is not suitable, spray or flush the equipment with a solution containing 13 oz. of this product for each 5 gallons of water (1000 ppm available chlorine). Allow to stand for 2 to 4 hours, flush and return to service.

**FILTERS** - When the sand filter needs replacement, apply 190 oz. of this product for each 150 to 200 cubic feet of sand. When the filter is severely contaminated, additional product should be distributed over the surface at the rate of 190 oz. per 20 sq. ft. Water should stand at a depth of 1 foot above the surface of the filter bed for 4 to 24 hours. When filter beds can be backwashed of mud and silt, apply 190 oz. of this product per each 50 sq. ft., allowing the water to stand at a depth of 1 foot above the filter sand. After 30 minutes, drain water to the level of the filter. After 4 to 6 hours, drain, and proceed with normal backwashing.

**DISTRIBUTION SYSTEM** - Flush repaired or replaced section with water. Establish a hypochlorinating station and apply sufficient product until a consistent available chlorine residual of at least 10 ppm remains after 24 hour retention time. Use a chlorine test kit.

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## EMERGENCY DISINFECTION AFTER FIRES

**CROSS CONNECTIONS OF EMERGENCY CONNECTIONS** - Hypochlorination or gravity feed equipment should be set up near the intake of the untreated water supply. Apply sufficient product to give a chlorine residual of at least 0.1 to 0.2 ppm at the point where the untreated supply enters the regular distribution system. Use a chlorine test kit.

## EMERGENCY DISINFECTION AFTER DROUGHTS

**SUPPLEMENTARY WATER SUPPLIES** - Gravity or mechanical hypochlorite feeders should be set up on a supplementary line to dose the water to a minimum chlorine residual of 0.2 ppm after a 20 minute contact time. Use a chlorine test kit.

**WATER SHIPPED IN BY TANKS, TANK CARS, TRUCKS, ETC.** - Thoroughly clean all containers and equipment. Spray a 500 ppm available chlorine solution and rinse with potable water after 5 minutes. This solution is made by mixing 13 oz. of this product for each 10 gallons of water. During the filling of the containers, dose with sufficient amounts of this product to provide at least a 0.2 ppm chlorine residual. Use a chlorine test kit.

## EMERGENCY DISINFECTION AFTER MAIN BREAKS

**MAINS** - Before assembly of the repaired section, flush out mud and soil. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual of test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

## COOLING TOWER/EVAPORATIVE CONDENSER WATER

**SLUG FEED METHOD** - Initial Dose: When system is noticeably fouled, apply 122 to 244 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 25 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

**INTERMITTENT FEED METHOD** - Initial Dose: When system is noticeably fouled, apply 122 to 244 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown.

Subsequent Dose: When microbial control is evident, add 25 oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

**CONTINUOUS FEED METHOD** - Initial Dose: When system is noticeably fouled, apply 122 to 244 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 3 oz. of this product per 1,000 gallons of water lost by blowdown to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

## LAUNDRY SANITIZERS

### Household Laundry Sanitizers

**IN SOAKING SUDS** - Thoroughly mix 5 oz. of this product to 10 gallons of wash water to provide 200 ppm available chlorine. Wait 5 minutes, then add soap or detergent. Immerse laundry for at least 11 minutes prior to starting the wash/rinse cycle.

**IN WASHING SUDS** - Thoroughly mix 5 oz. of this product to 10 gallons of wash water containing clothes to provide 200 ppm available chlorine. Wait 5 minutes, then add soap or detergent and start the wash/rinse cycle.

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## Commercial Laundry Sanitizers

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Wet fabrics or clothes should be spun dry prior to sanitization. Thoroughly mix 5 oz. of this product with 10 gallons of water to yield 200 ppm available chlorine. Promptly after mixing the sanitizer, add the solution into the prewash prior to washing fabrics/clothes in the regular wash cycle with a good detergent. Test the level of available chlorine, if solution has been allowed to stand. Add more of this product if the available chlorine level has dropped below 200 ppm.

### FARM PREMISES

Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities occupied or traversed by animals or poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. To disinfect, saturate all surfaces with a solution of at least 1000 ppm available chlorine for a period of 10 minutes. A 1000 ppm solution can be made by thoroughly mixing 25 oz. of this product with 10 gallons of water. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals or poultry, as well as the cleaned forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or poultry or employ equipment until chlorine has been dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers must be rinsed with potable water before reuse.

### PULP AND PAPER MILL PROCESS WATER SYSTEMS

**SLUG FEED METHOD** - Initial Dose: When system is noticeably fouled, apply 122 to 244 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 25 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

**INTERMITTENT FEED METHOD** - Initial Dose: When system is noticeably fouled, apply 122 to 244 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown.

Subsequent Dose: When microbial control is evident, add 25 oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

**CONTINUOUS FEED METHOD** - Initial Dose: When system is noticeably fouled, apply 122 to 244 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 3 oz. of this product per 1,000 gallons of water lost by blowdown to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

### AGRICULTURAL USES

**POST-HARVEST PROTECTION** - Potatoes can be sanitized after cleaning and prior to storage by spraying with a sanitizing solution at a level of 1 gallon of sanitizing solution per ton of potatoes. Thoroughly mix 3 oz. of this product to 2 gallons of water to obtain 500 ppm available chlorine.

Disinfect leafcutting bee cells and bee boards by immersion in a solution containing 1 ppm available chlorine for 3 minutes. Allow cells to drain for 2 minutes and dry for 4 to 5 hours or until no chlorine odor can be detected. This solution is made by thoroughly mixing 2½ tsp. of this product to 100 gallons of water. The bee domicile is disinfected by spraying with a 0.1 ppm solution until all surfaces are thoroughly wet. Allow the domicile to dry until all chlorine odor has dissipated. [Not for use in California]

**FRUIT & VEGETABLE WASHING** - Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix 13 oz. of this product in 200 gallons of water to make a sanitizing solution of 25 ppm available chlorine. After draining the tank, submerge fruit or vegetables for 2 minutes in a second wash tank containing the recirculating sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging.

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## AQUACULTURAL USES

**FISH PONDS** - Remove fish from ponds prior to treatment. Thoroughly mix 244 oz. of this product to 10,000 gallons of water to obtain 10 ppm available chlorine. Add more product to the water if the available chlorine level is below 1 ppm after 5 minutes. Return fish to pond after the available chlorine level reaches zero.

**FISH POND EQUIPMENT** - Thoroughly clean all equipment prior to treatment. Thoroughly mix 5 oz. of this product to 10 gallons of water to obtain 200 ppm available chlorine. Porous equipment should soak for one hour.

**MAINE LOBSTER PONDS** - Remove lobsters, seaweed, etc. from ponds prior to treatment. Drain the pond. Thoroughly mix 14,629 oz. of this product to 10,000 gallons of water to obtain at least 600 ppm available chlorine. Apply so that all barrows, gates, rocks and dams are treated with product. Permit high tide to fill the pond and then close the gates. Allow water to stand for 2 to 3 days until the available chlorine level reaches zero. Open and allow 2 tidal cycles to flush the pond before returning lobsters to the pond. [Not for use in California]

**CONDITIONING LIVE OYSTERS** - Thoroughly mix 13 oz. of this product to 10,000 gallons of water at 50 to 70 degrees F to obtain 0.5 ppm available chlorine. Expose oysters to this solution for at least 15 minutes, monitoring the available chlorine level so that it does not fall below 0.05 ppm. Repeat entire process if the available chlorine level drops below 0.05 ppm or the temperature falls below 50 degrees F. [Not for use in California]

**CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS** - Prepare a solution containing 200 ppm of available chlorine by mixing 5 oz. of product with 10 gallons of water. Pour into drained pond potholes. Repeat if necessary. Do not put desirable fish back into refilled ponds until chlorine residual has dropped to 0 ppm, as determined by a test kit.

## SANITIZATION OF DIALYSIS MACHINES

Flush equipment thoroughly with water prior to using this product. Thoroughly mix 15 oz. of this product to 10 gallons of water to obtain at least 600 ppm available chlorine. Immediately use this product in the hemodialysate system allowing for a minimum contact time of 15 minutes at 20 degrees C. Drain system of the sanitizing solution and thoroughly rinse with water. Discard and DO NOT reuse the spent sanitizer. Rinsate must be monitored with a suitable test kit to ensure that no available chlorine remains in the system.

This product is recommended for decontaminating single and multipatient hemodialysate systems. This product has been shown to be an effective disinfectant (virucide, fungicide, bactericide, pseudomonicide) when tested by AOAC and EPA test methods. This product may not totally eliminate all vegetative microorganisms in hemodialysate delivery systems due to their construction and/or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. This product should be used in a disinfectant program which includes bacteriological monitoring of the hemodialysate delivery system. This product is NOT recommended for use in hemodialysate or reverse osmosis (RO) membranes.

Consult the guidelines for hemodialysate systems which are available from the Hepatitis Laboratories, CDC, Phoenix, AZ 85021.

## ASPHALT OR WOOD ROOFS AND SIDINGS

To control fungus and mildew, first remove all physical soil by brushing and hosing with clean water, and apply a 5000 ppm available chlorine solution. Mix 13 oz. of this product per gallon of water and brush or spray roof or siding. After 30 minutes, rinse by hosing with clean water. [Not for Use in California]

## BOAT BOTTOMS

To control slime on boat bottoms, sling a plastic tarp under boat, retaining enough water to cover the fouled bottom area, but not allowing water to enter enclosed area. This envelope should contain approximately 500 gallons of water for a 14 foot boat. Add 43 oz. of this product to this water to obtain a 35 ppm available chlorine concentration. Leave immersed for 8 to 12 hours. Repeat if necessary. Do not discharge the solution until the free chlorine level has dropped to 0 ppm, as determined by a swimming pool test kit. [Not for Use in California]

## ARTIFICIAL SAND BEACHES

To sanitize the sand, spray a 500 ppm available chlorine solution containing 13 oz. of this product per 10 gal. of water at frequent intervals. Small areas can be sprinkled with a watering can. [Not for Use in California]

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**WAREWASHING FOR SANITIZING TABLEWARE IN  
LOW TEMPERATURE DISHWASHING MACHINE**

Dispense this product into final rinse water at 100 ppm available chlorine. Do not allow concentration to fall below 50 ppm. Air dry. Dispenser should be set to deliver 8cc of sanitizing solution per gallon of water to give 100 ppm of available chlorine. Only a qualified service representative should set or adjust dispenser on the machine.

[May include any of following headings: Hospital use, Hospitals, Doctor's offices, Hospices, Nursing homes [and other] Healthcare settings:]

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1  
(AIDS VIRUS) ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.**

**KILLS HIV-1 (AIDS VIRUS) ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in healthcare settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS).

**Personal Protection:** Disposable protective gloves, gowns, face masks, and/or eye coverings as appropriate must be worn during all cleaning and decontamination procedures of blood and other body fluids.

**Cleaning Procedures:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before applying this product.

**Disinfectant Use and Contact Time:** Effective against HIV-1 (AIDS virus) on hard non-porous surfaces in the presence of a moderate amount of organic soil (e.g. 5% blood serum). Prepare disinfectant by mixing 25 oz. of this product per gallon of water to provide 10,000 ppm of available chlorine. Leave surfaces wet for 5 minutes. Drain and let air dry.

**Disposal of Infectious Materials:** Blood and other body fluids should be autoclaved and disposed of according to Federal, State, and local regulations for infectious waste disposal.

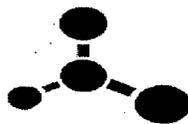
[GRAPHICS]  
OPTIONAL  
[for side or back panel only]:



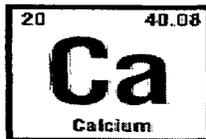
[The following optional graphics are for product labeling with Swimming Pools and/or Spas as the major use sites.]



**Fast  
Acting**



**Controls  
Algae &  
Bacteria**



**Calcium  
Free**

**[INFO FOR CUSTOMERS  
WHO NEED A CALCIUM  
FREE PRODUCT FOR POOL]**

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